Application No. 09/811,528
Amendment dated: December 7, 2004

Amendments to the Specification:

Please replace the paragraph beginning at page 4, line 10, which starts with "Generally the present invention..." with the following replacement paragraph.

Generally, the present invention provides a method and system for recovering and generating a clock signal from recovered timestamps in a data stream. Figure 1 illustrates an exemplary embodiment of the system of the present invention. The system 50 comprises a data source 52, which can be a video or other real time data source, or a static data source, connected to a transmitter 54. The transmitter 54 forms a synchronous link with the receiver 66. Regardless of the type of data provided by the data source 52 a synchronous link is provided. The transmitter 54 comprises an encoder 56, which receives the data from the data source 52, and prepares it for transmission. The data is then given a timestamp to denote either the encoding time or the transmission time. The timestamp is applied to the encoded data by the time stamp generator 58. The time stamp generator 58, is operatively connected to a clock 60, which supplies the time with which to encode the data. The time stamped data is then provided to a transmitter interface 62. The elements of the transmitter 54 are known to the art and can take any known configuration without changing the scope of the present invention. The transmitter 54 provides the timestamp encoded data to a transmission channel 64, which is depicted here as a satellite link, but could be any transmission medium. The transmission medium 64 transfers the data to the receiver 66. The receiver 66 is comprised of a receiver interface 68, which accepts the data stream from the transmission medium 64, and a decoder 138, which is operatively connected to a clock 144. The decoder 138 is described in further detail in descriptions of other figures, but includes a clock controller 446 and a timestamp extractor 1449 (neither shown but later referred to as 146 and 140 respectively). The decoder 138 decodes the received data stream and provides a decoded data stream 70.